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Fig. 1

-9	cggt	gaa	gaa	tg	gtg	tat	ttt	tta	aat	ttc	atg	tca	ata	acc	aat	gtc	ccg	gtg	ctg	aag
												S							L	
52	cgcg	cgc	gad	ctc	tac	atg	gcg	acg	aat	cgc	cgg	ctg	gtg	gtt	gtt	ctt	gtg	gtg	ctg	ctg
									N			<u>L</u>								
112	tact	ggg	rtgg	jtc	cag	aac	gtt	tgg	acg	tgg	ragc	cct	ggg	acg	cgc	gat	ttg		caa	
	<u>Y</u>	W	V	V	Q	N	V	W	T	W	<u>_s</u>	P	G	<u>T</u>	R	D	L		Q	V
172	gacg	cga	aga	ato	gag												gcg	cat	ttg	cgc
			K	Ι	E		E					L			F	G	A		L	
232	cact	taa	aco	cgg	ctt	CCS	gca	gag	rtcg	gcc	acc	ctg	cgt					ttc		
		L	N	R	L		Α		S					E	K	L	T	F	Y	F
282	ccat	att	cato	cct	gaa	aaç	ccc	gtg	rccg	aac	cag	atc	tgg							
		Y	Y	P	Ε	K	P	V	P	N	Q	I	W	Q	T	W	K	V	D	L
352	gaag	acc	jaca	aac	ttc	CCC	caaç	cag	rtac	aga	cgg	ittt	cag		acg	tgg	gtc	gag		aat
		D	D	N	F	P	K	Q	Y			F	Q	K	T	W	V	E	K	N
412	ccag	act	cac	gtg	tac	cac	ctg	jatt	ccg	gac	tct	gtg	att			ttt	gtg	gcg	agt	ttg
		D	Y	V					P	D	S	V	Ι	E	D	F	V			L
472	tacg	cga	acq	gtg	ccg	gag	gto	gto	aga	gcg	jtac									
	Y	A		V	_	-		V	R		Y	_	L			K	N	Ι	M	K
532	gcgg	att	tt	ttc	cgg	tat	ttg	gtg	gato	tac			gga				tca	gac	atg	
		D	F	F	R		L		Ι	Y		R	G	G	T	Y		<u>D</u>		D
592	acgg	rtgt	gt	tta	aag	CCC	gato	caaç	gac	tgg	gcc									
	T	V		L		_		K	D	W	Α	Τ	F	D	R	D	L	Ι	Н	A
652	gccg	aca	aata	aag	gcc	gat	cto	ctcc	cag	ata										
	Α	D	N	K	A	_	L	S	Q	Ι	D	P	E	_	R	T	T	_	V	G
712	ctgg	rtga	att	ggc	att	gaç	ggc	gac	cccg	gac	cagg	ccc								
	L	V	I	G	I	E	A		P	D	R	P	D	W	Н	E	W	F	S	R
772	agac	:tgc	cag	ttc	tgc	caç	gtgg	gaco	gato	caç	gcg	jaag	ccg	gga	cac	ccg	ctg	ctg	cgc	
	R	L	Q	F	C	Q		T	Ι	Q		K				P				E
832	ctga	itca	atc	cgg	atc	gtg	ggag	ggag	gacç							ggc	gtt	ttg	raaa	
	L	Ι	Ι	R	Ι	V	-	E	T			K			M		٧			R
892	gtgg	gaaç	ggc	aag	gac	tc	ggg	gca	agat											aca
	V	E	G		D		G			I		Q			_	P			F	T
952	gaca	cto	ctg	ttt	gat															
	D	_		F			L		N		A		D	G		L			G	Y
1012	ggcg	ıtg	ggg	tcg	ttg				caag	cac	ggc	caaa	tat	aag	cto	jaaa				
	G	V	G		L	Y						K					K.	T	E	I
1072	aaca	aga	aat	aac	gag	CC														
	N	K	N	N	E	P			S	E	D	Q			N	W	R	S	L	T
1132	aaca	ıtg	gac	aag	cca	aag	gato	cate	gggg	gad	cgta	aatg	gtg	rtta	CCa	ato	acc	gago	ttt	agt
	N	М	D	K	P	K	I	M	G	D	V	M	V	L	P	I	T	S	F	S
1192	ccga	acq	gtg	ggg	cac	ato	ggg	ctca	aaag	gago	cago	ctca	gat	agg	icto	gca	ttt	gtç	ıgag	rcat
												S								
1252												atag	gaa	aaa	taa	ata	att	ago	:tgc	att
	L	F	S	G	S	W	K	P	K	N	K									
1312	ttac	ata	aat	tct	cat	.aac	acad	aaca	acac	aac	ca									

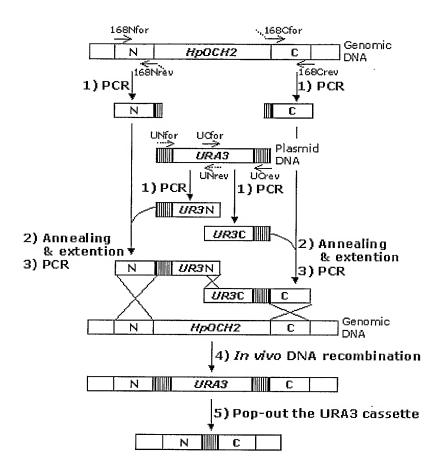
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Fig. 2

Ho0ch2o Ho0chlo Ca0chlo Po0chlo Sc0chlo Sp0chlo	1 1 1	
HpOch2p HpOchlp CaOchlp PrOchlp ScOchlp SpOchlp	42 32 35 30 29 67	OM WTWSPGTROLAQVDAKIEARINSNLHTFGAELRHLNRLPABSATHAKIN MYFPY CLELFKFSTSWSINTEDKIVSEYINNFYKLNPEFRGAMPYDAAVTAAATAAATAAATAAATAAATAAATAAATAAATAAA
HpOch2p HbOchlb CaOchlp PpOchlb ScOchlb SpOchlp	100 87 94 88 91 137	Y-PE P PNO TOKYD LEDDN FP OF PROKEDV-BEND NYTHE DDSVIED FASLYAN—WP EVA DMSA P RKSIWOWKYPSTOPD P KELVNKWKNE—NP TYKYNL TDDE ILE SEI POKOT WP EVA D-ES PFPKNIWO TOKYGID KSFP B LK QO WE-D WPDYKHY POKOCDIW BOLYSQ—VP VA R-SYEFFPCHIWO TOKYSPSDSSFP SU SOLGES OL-QUSPNYD LFW PODAAWE HHEYER—VPEVA R-SOAR POR WO TOKYGAD KNIPPSSET OKTOS GSYSPDYOYSLUSDDSIIP POKNIVAP—WPLY P-YHAD PKLIWO TSKOP——HOURVIR TRFOR—INHPSYSEAWOD DEQSKAU ISSIGD SSESKUS
HpOch2p HpOchlp CaOchlp PpOchlp ScOchlp SpOchlp	166 153 160 154 158 200	BAY(LLPKNINKADFFRYL) MARGCTYED DT NCLKPIKD WANT DRD THAADNK — ADLSQI BAKE LPNRI MEDFARYL MELNGG YAD DTD LOKP MED SDRN GF RAYR MPKSILKADFFRYL LFARGG YAD DT GLKFME WEENSEM LEKKN———————————————————————————————————
HpOch2p HpOchlp CaOchlp PpOchlp ScOchlp SpOchlp	204 214 208	DPEARTTPUCLVICIEADED REDMINISTER OF CONTIOAKECHE LERLITERE PE
HpOch2p HpOchlp CaOchlp PrOchlp ScOchlp SpOchlp	250	
HpOch2p HpOchlp CaOchlp PpOchlp ScOchlp SpOchlp	331 307 310 304 368 341	CKEGDGYCVGSLYWRKHGKYKLKKTEINKNNEPLHSEDQ MWSLINNIKKKECDWYL DHQRD AGELYG
HpOchZp HpOchlp CsOchlp PpOchlp ScOchlp SpOchlp	392 348 344 371 438 362	PITSESPMYCHNCERSSSDERBUTHERCSWEPKNK— PRASFREDK——ENNCGRYCYWEHERCGSWENNGKGEIKPGMEGYEGEDPNEVEELRKNDVSKRDVIP PITSESPDMYCMCASDSHOPNAYARICHESGSWEDGMPENKO————————————————————————————————————
HpOch2p HpOch1p CaOch1p PpOch1p ScOch1p SpOch1p	413	100% GESKDVAPVKKLAKRCAYPYTPY 27.3%

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Fig. 3



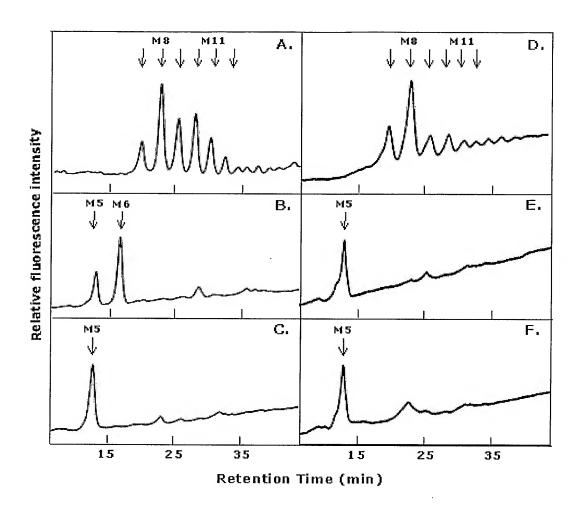
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Fig. 4

DL-1 (Wild type) och1A och2A	A. YPD, 37°C	B.YPD, 45°C
C. 40 µg/ml Hygromycin B	D. 0.4% Deoxycholate	E. 7 mg/ml Calcofluor White

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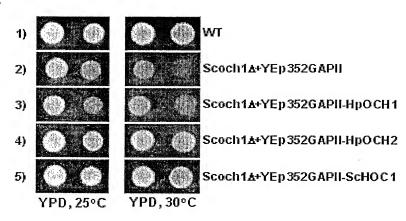
Fig. 5



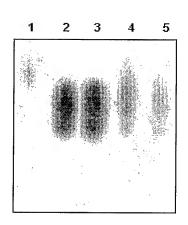
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Fig. 6

Α.

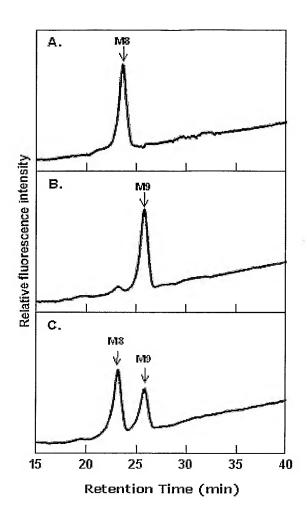


В.



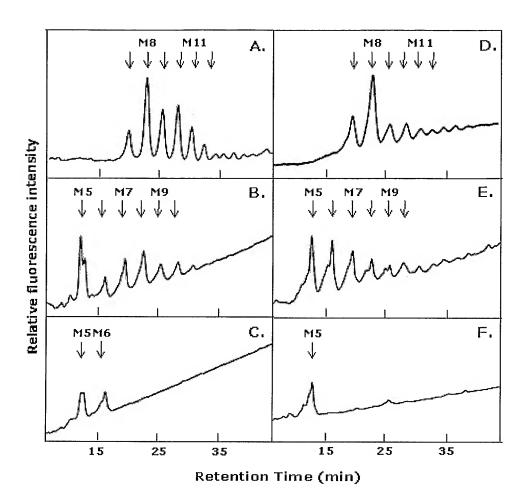
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Fig. 7



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Fig. 8



9/9 Fig. 9

	ScHoclp	ScOchlp	Hp 0 ch lp	ORF379	0 RF168	ORF288	ORF 580	0RF100	0 RF576
ScHoclp (396 aa)		20	21	40	23	18	19	18	17
Sc Ochlp (480 aa)	36		22	24	37*	21	18	17	15
Hp Och lp (435 aa)	36	36		19	22	22	32	21	19
0 RF379 (402 aa)	63	40	34		28	18	21 .	17	16
0 RF 168 (428 aa)	41	54*	39	45		21	21	20	17
0 RF 288 (41 4 aa)	35	36	40	34	40		21	51	33
0 RF 580 (362 aa)	34	36	48	35	39	40		20	19
0 RF100 (425 aa)	34	33	37	33	36	66	38		32
0 RF 576 (369 aa)	30	31	33	30	32	50	33	47	
					Similarity				